



Jeremy Jarnecke <jjarnecke@fs.fed.us> 07/14/2005 02:44 PM To Robert A Davidson radavidson@fs.fed.us, tfitzgerald@tu.org

Peter Stevenson/EPR/R8/I ISEPA/I IS@EPA

cc Peter Stevenson/EPR/R8/USEPA/US@EPA, jbaker@snowbird.com

bcc

Subject Fw: AWAL Set # 66564 (AF AML)

All-->

Here are the results from the water quality on the emergent springs below the waste rock piles, collected on June 29, 2005. It looks like the main ingredients in the metals cocktail are Aluminum and Zink. Also attached is an excel spreadsheet containing the sampling results for the Pacific Mine Adit from 2004. It seems that the water from the emergent/seasonal springs is much nastier (in terms of Al & Zn) than the water discharged from the adit. Bob and I are planning to complete a round of sampling (Annual AML Monitoring) in the NF next week and will update you all with the results.

Thanks-->

Jeremy Jarnecke Hydrologist Uinta National Forest 801.342.5110 jjarnecke@fs.fed.us

(See attached file: 2004 WQ-AmFk AML_v0.xls)

file: L66564-report.pdf)

2004 WQ-AmFk AML_v0.xls L66564-report.pdf

(See attached



AMEDICAN

Client: Uinta National Forest

Contact: Jeremy Jamecke

WEST

Daie Sampled: June 29, 2005

Date Received: June 30, 2005

ANALYTICAL LABORATORIES

Project: AF AML

Field Sample ID:

Lab Sample ID: L66564-01A

Pacific Mine @ Toe

463 West 3600 South Salt Lake City, Utah 84115	DISSOLVED METALS Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analy Res		
	Aluminum	mg/L	7/14/2005 8:11:32 AM	200.7	1.0	35		
		Arsenic	mg/L	7/8/2005 3:37:40 PM	200.8	0.0050	< 0.0050	
		Cadmium	mg/L	7/8/2005 3:37:40 PM	200.8	0.0040	0.31	
		Copper	mg/L	7/8/2005 3:37:40 PM	200.8	0.0040	0.76	1
	(801) 263-8686	Iron	mg/L	7/14/2005 8:11:32 AM	200.7	0.050	0.85	1
	Toll Free (888) 263-8686	Lead	mg/L	7/8/2005 3:37:40 PM	200.8	0.0050	3.3	
е-г	Fax (801) 263-8687 -mail: awal@awal-labs.com	Nickel	mg/L	7/8/2005 3:37:40 PM	200.8	0.0050	0.071	
		Zinc	mg/L	7/8/2005 3:37:40 PM	200.8	1.0	36	:

Kyle F. Gross Laboratory Director

Peggy McNicol QA Officer

Released by:

Laboratory Supervisor

Report Date:

July 14, 2005

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¹ Spike recovery indicates matrix interference. The method is in control as indicated by the laboratory control sample (LCS).

² Analyte concentration is too high for accurate spike recovery.



AMERICAN

Client:

Uinta National Forest

Date Sampled: June 29, 2005

Contact: Jeremy Jarnecke Date Received: June 30, 2005

WEST ANALYTICAL **LABORATORIES**

Project: AF AML

Lab Sample ID:

L66564-02A

Field Sample ID:

Pacific Mine @ Monument

463 West 3600 South Salt Lake City, Utah 84115	DISSOLVED METALS		Date	Method	Reporting	Analytical
	Analytical Results	Units	Analyzed	Used	Limit	Results
	Aluminum	mg/L	7/14/2005 8:35:41 AM	200.7	0.10	0.14
	Arsenic	mg/L	7/8/2005 3:57:43 PM	200.8	0.0050	< 0.0050
	Cadmium	mg/L	7/8/2005 3:57:43 PM	200.8	0.0040	0.11
	Copper	mg/L	7/8/2005 3:57:43 PM	200.8	0.0040	0.18
(801) 263-8686	Iron	mg/L	7/14/2005 8:35:41 AM	200.7	0.050	< 0.050
Toll Free (888) 263-8686	Lead	mg/L	7/8/2005 3:57:43 PM	200.8	0.0050	0.65
Fax (801) 263-8687 c-mail: awal@awal-labs.com	Nickel	mg/L	7/8/2005 3:57:43 PM	200.8	0.0050	0.044
	Zinc	mg/L	7/8/2005 3:57:43 PM	200,8	0.10	10

Kyle F. Gross Laboratory Director

> Peggy McNicol QA Officer

> > Released by:

Laboratory Supervisor

Report Date:

July 14, 2005

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AMERICAN

ANALYTICAL

WEST

Client: Uinta National Forest

Dais Sampled: June 29, 2005

Project: AF AML

Lab Sample ID:

L66564-01

Contact: Jeremy Jarnecke

Date Received: June 30, 2005

Field Sample ID:

Pacific Mine @ Toe

463 West 3600 South Salt Lake City, Utah 84115

.	A - al-di- I Damile	T T	Date Analyzed	Method	Reporting		
h	Analytical Results	Units		Used	Limit	Result	
5	Sulfate	mg/L	07/02/05 10:21 am	300.0	100	660	

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 e-mail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Peggy McNicol QA Officer

> > > Released by:

Laboratory Supervisor

Report Date:

July 14, 2005

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AMERICAN

Uinta National Forest Client:

Contact: Jeremy Jarnecke Date Received: June 30, 2005

WEST ANALYTICAL LABORATORIES

Date Sampled: June 29, 2005

Project: AF AML

Field Sample ID:

Lab Sample ID:

L66564-02

Sulfate

Pacific Mine @ Monument

463 West 3600 South Salt Lake City, Utah 84115

Analytical Results

Date Analyzed Units

07/02/05 12:01 pm

mg/L

Method Used 300.0

Reporting Analytical Limit Result

100

200

(801) 263-8686 Toll Free (888) 263-8686 Fax (801) 263-8687 e-mail: awal@awal-labs.com

> Kyle F. Gross Laboratory Director

> > Peggy McNicol QA Officer

> > > Released by:

Laboratory Supervisor

Report Date:

July 14, 2005

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American West Analytical Labs

Client Sample ID

Pacific Mine @ Toe

WORK ORDER Summary

30-Jun-05

Work Order L66: 64

Client ID:

2UN100

AF AML

QC Level: QC 1

Date Received

6/30/2005

Collection Date

6/29/2005 12:20:00 PM

Pacific Mine @ Monument 6/29/2005 12:45:00 PM

Project: Comments:

Sample ID

L66564-01A

L66564-01B

L66564-02A

L66564-02B

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7/14/2005

7/14/2005

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Date Due	! fatrix	Test Code	Storage	
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7/14/2005	•	200.8-W-DISS	june 30 - dis m	
7/14/2005		200.8PRD	june 30 - dis m	
7/14/2005		ICP-DW-DISS	june 30 - dis m	
7/14/2005	Aqueous	300.0-W	june 30 - so4	
7/14/2005	queous-Dissol	ve200.7PRD	june 30 - dis m	
7/14/2005		200.8-W-DISS	june 30 - dis m	
7/14/2005		200.8PRD	june 30 - dis m	

ICP-DW-DISS

300.0-W

Aqueous

1 of 1

june 30 - dis m

june 30 - so4

1					
Client <u>United NF</u> Address <u>88: W 100 N</u> <u>Proces Ut 8460/</u> Cliv State Zip Phone <u>801-342-51/6</u> Fax		AMERIC WE ANALYTIC LABORATOR 463 West 3600 So Sult Lake City, U	CUSTODY IES (801) 263-8686 with (888) 263-8686	Lab Sample Set #C Page/ C Turn Around Time (Circle 1 day 2 day 3 day 4 QC 1 2 2	of
Contact Deremy TARNEURE		P	lease indicate tests needed b	elow	LABORATORY L SE ONLY
Contact Screwy TARNEURE E-mail Same AF ANL Project Number/P.O.# Sampler Name Taxwerke	— — — — — — — — — — — — — — — — — — —	Matrix Number of Constants (Total) Dissolves Netter Sulesale		COMMENTS	SAMPLES WERE 1 Shipped or liar 1 delivered Notes: 2 Ambient of Chilled Notes: 3 Temperature 8°C
Sample ID					4 Received Broken/Leaking (Improperty Sealed)
PACIFIC MINE & TOS PACIFIC MINE & MONUMENT	6/29/05 1220 6/29/05 1245	M + X X M + X X			Notes: Notes: Property Preserved Notes: Received Within Holding Times
				-	(Y) N Notes:
		├─├─ ┼── ╎ ──	╎╸╽╸╏╸╏╸╏╸╏		COC Tape Was:
					1 Present on Outer Package Y NA
					2 Unbroken on Outer Package
Relinquished By: Signature, Date (MO10, KICH (MO10) 0/3NO-	PRINT HANGE Received By: Signature Received By: Signature Received By: Signature A A A A A A A A A A A A A A A A A A A	mords	Special Instructions: Diss Metals to include: AL AS CD CU	Fe Ph-	3 Present on Sample NA 4 Unbroken on Sample NA Notes:
Undie Richards 13:0)	PRINT NAME TO THE RECEIVED BY Signature		N1- 2N-		······
PRINT NAME FUSBAGE TURBON Pate	PRINT TOME	Slin			Discrepancies Between Sample Labels and COC Record? Y Notes;
Livial take	C.Mist install][